U.S. Application No. 09/848,828 (Conf. No. 7479)   **RSW9-2001-0077-US1**
Reply to Office Action dated June 29, 2005

AMENDMENTS TO THE CLAIMS

This Listing of Claims will replace all prior versions, and listings, of claims in this application:

Listing of Claims:

1.   (Canceled)

2.   (Currently Amended) A method for efficient processing of a document encoded in a markup language, the method comprising the step of: communicating a data model representing the document through a bus of a printed circuit board from a special purpose processor configured for processing the document encoded in the markup language, to a general purpose processor configured for further processing of the encoded document as processed by the special purpose processor, each of said special purpose processor and said general purpose processor being provided as a respective integrated circuit on said printed circuit board. The method of claim 1, wherein said data model represents a document encoded in mXML.

3.   (Currently Amended) The method of claim 1 2, wherein said data model represents a document encoded in XML.

4.   (Canceled)

5.   (Canceled)

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6.   (Currently Amended) The method of ~~claim 4~~ claim 7, wherein said

processing step comprises performing a transformation on the document.

7.   (Currently Amended) A method for efficient processing of a document

encoded in a markup language, the method comprising the steps of:

     receiving a document intended for delivery to a target;

     processing the document using a special purpose processor dedicated to

processing of documents encoded in the markup language, said special purpose

processor being provided as a first integrated circuit on a printed circuit board; and

passing, by communicating through a bus of a printed circuit board, the processed

document to the target for further processing by a general purpose processor including

a microprocessor that is provided as a second integrated circuit, separate from the

special purpose processor, on the printed circuit board ~~The method of claim 4~~, wherein

said processing step comprises creating an array-based model of the document.

8.   (Currently Amended) A method for efficient processing of a document

encoded in a markup language, the method comprising the steps of:

     receiving a document intended for delivery to a target;

     processing the document using a special purpose processor dedicated to

processing of documents encoded in the markup language, said special purpose

processor being provided as a first integrated circuit on a printed circuit board; and

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passing, by communicating through a bus of a printed circuit board, the processed

document to the target for further processing by a general purpose processor including

a microprocessor that is provided as a second integrated circuit, separate from the

special purpose processor, on the printed circuit board ~~The method of claim 4~~, wherein

said processing step comprises creating a tree-based model of the document.

9.   (Currently Amended) A method for efficient processing of a document

encoded in a markup language, the method comprising the steps of:

        receiving a document intended for delivery to a target;

        processing the document using a special purpose processor dedicated to

processing of documents encoded in the markup language, said special purpose

processor being provided as a first integrated circuit on a printed circuit board; and

passing, by communicating through a bus of a printed circuit board, the processed

document to the target for further processing by a general purpose processor including

a microprocessor that is provided as a second integrated circuit, separate from the

special purpose processor, on the printed circuit board ~~The method of claim 4~~, wherein

said special purpose processor is specially configured for parsing the document.

10.   (Currently Amended) A method for efficient processing of a document

encoded in a markup language, the method comprising the steps of:

        receiving a document intended for delivery to a target;

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processing the document using a special purpose processor dedicated to
processing of documents encoded in the markup language, said special purpose
processor being provided as a first integrated circuit on a printed circuit board; and
passing, by communicating through a bus of a printed circuit board, the processed
document to the target for further processing by a general purpose processor including
a microprocessor that is provided as a second integrated circuit, separate from the
special purpose processor, on the printed circuit board. The method of claim 4, wherein
said special purpose processor comprises a supplemental general purpose
microprocessor for executing computer readable code for parsing the document, said
supplemental general purpose microprocessor being distinct from a primary general
purpose microprocessor.

11.   (Currently Amended) The method of claim 4 claim 9, wherein said
passing step comprises communicating the document, as processed, to an application
process through a bus of a printed circuit board.

12.   (Currently Amended) The method of claim 4 claim 9, wherein said
passing step comprises communicating the document, as processed, to a target via a
communications network.

13.   (Currently Amended) The method of claim 4 claim 9, wherein the target is
a local application process.

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14.   (Currently Amended) The method of ~~claim 4~~ claim 9, wherein the target is

a remote device.

15.   (Canceled)

16.   (Currently Amended) <u>A system for efficient processing of a document</u>

<u>encoded in a markup language, the system comprising:</u>

<u>a memory provided on a printed circuit board;</u>

<u>a general purpose processor provided on said printed circuit board and being</u>

<u>operatively connected to said memory for executing computer readable code stored in</u>

<u>said memory, said computer readable code configuring said general purpose processor</u>

<u>to perform processing distinct from certain processing of documents encoded in the</u>

<u>markup language; and</u>

<u>a special purpose processor provided as an integrated circuit on said printed</u>

<u>circuit board and being operatively connected to said memory said special purpose</u>

<u>processor being specially configured for certain processing of documents encoded in</u>

<u>the markup language;</u>

<u>wherein said special purpose processor is a dedicated processor</u> ~~The system of~~

~~claim 15,~~ <u>and</u> wherein said special purpose processor is configured for parsing

documents encoded in machine-oriented extensible markup language (mXML).

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17.   (Currently Amended) The system of claim ~~15~~ 16, wherein said special

purpose processor is configured for transforming documents encoded in extensible

markup language (XML) .

18.   (Currently Amended) <u>A system for efficient processing of a document</u>

<u>encoded in a markup language, the system comprising:</u>

<u>a memory provided on a printed circuit board;</u>

<u>a general purpose processor provided on said printed circuit board and being</u>

<u>operatively connected to said memory for executing computer readable code stored in</u>

<u>said memory, said computer readable code configuring said general purpose processor</u>

<u>to perform processing distinct from certain processing of documents encoded in the</u>

<u>markup language; and</u>

<u>a special purpose processor provided as an integrated circuit on said printed</u>

<u>circuit board and being operatively connected to said memory said special purpose</u>

<u>processor being specially configured for certain processing of documents encoded in</u>

<u>the markup language;</u>

<u>wherein said special purpose processor is a dedicated processor</u> ~~The system of~~

~~claim 15,~~ <u>and</u> wherein said special purpose processor comprises a dedicated integrated

circuit that is specially configured for processing the document.

19.   (Previously Presented) The system of claim 18, further comprising:

a telecommunications device operatively connected to said general purpose

processor and capable of communicating via a communications network; and

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a first program stored in said memory and executable by said general purpose

processor for controlling said special purpose processor to process the document, and

for communicating the document, as processed, to a target.

20. (Previously Presented) The system of claim 19, further comprising:

a second program stored in the memory and executable by said general purpose

processor for recognizing the document as encoded in the markup language and

responsively controlling said special purpose processor to process the document.

21. (Currently Amended) The system of claim ~~15~~ 18, wherein said special

purpose processor comprises a supplemental general purpose processor for executing

computer readable code for processing the document.

22. (Previously Presented) The system of claim 21, wherein said computer

readable code is configured for processing the document in machine-oriented

extensible markup language (mXML).

23. (Currently Amended) The system of claim 18 ~~24~~, further comprising:

a telecommunications device operatively connected to said general purpose

processor and capable of communicating via a communications network; and

a first program stored in said memory and executable by said general purpose

processor for controlling said special purpose processor to process the document, and

for communicating the document, as processed, to a target.

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24.   (Previously Presented) The system of claim 23, further comprising:

a second program stored in the memory and executable by said general purpose

processor for recognizing the document as encoded in the markup language and

responsively controlling said special purpose processor to process the document.

25-31.   (Canceled)

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